

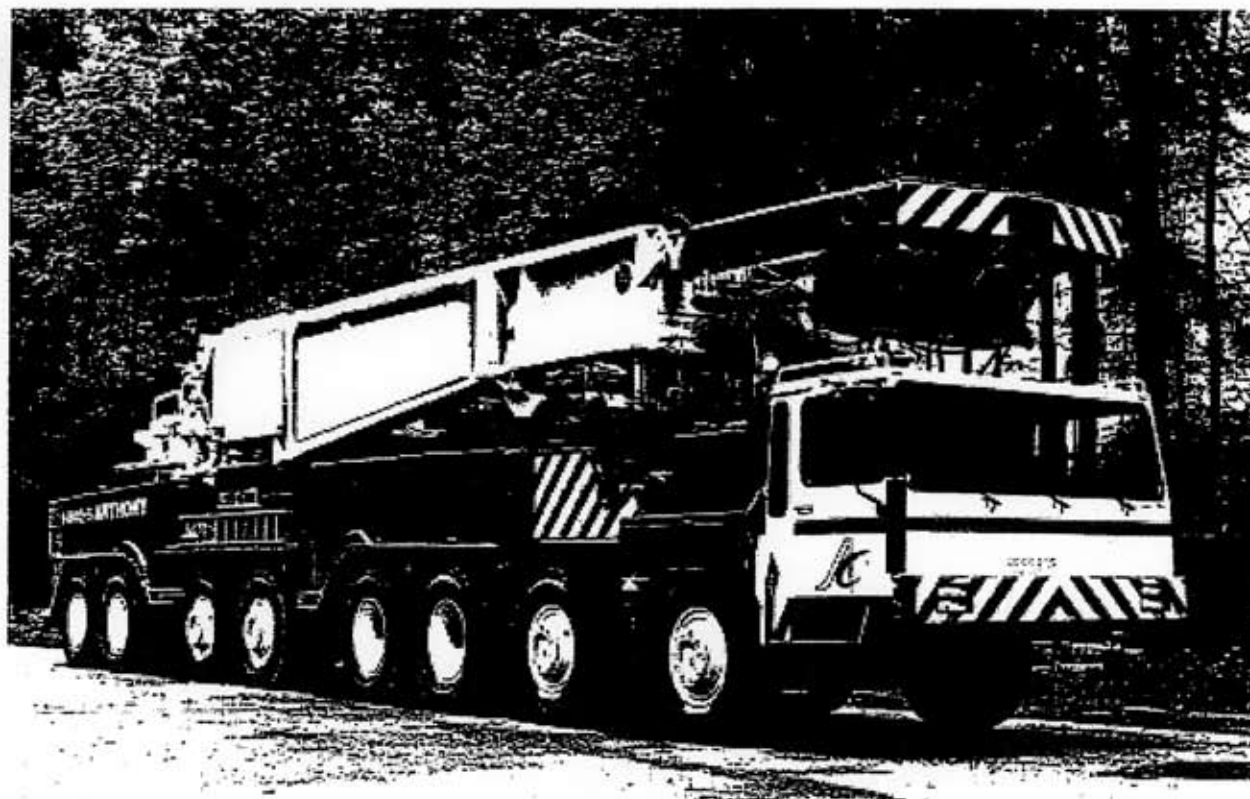


LIEBHERR

LG/LTM 11000

1000 TON COMPLETELY ROADABLE CRANE

325 ft MAIN BOOM - 300 ft JIB





Technical description.

Truck chassis.

Frame:	Liebherr designed and manufactured, box type, torsion resistant, all-welded construction made of high-tensile structural steel.
Outriggers:	4 hydraulic swing-out beams with support pad jacks.
Engine:	Diesel, 12 cylinder, watercooled, make Daimler-Benz, type OM 444 A, output 390 kW DIN (530 HP) at 2100 min ⁻¹ , max. torque 1813 lbs-ft at 1300 min ⁻¹ . Fuel tank capacity: 132 gallons.
Transmission:	Allison type CLBT 755 automatic transmission with torque converter and hydro-dynamic retarder brake. 5 forward speeds, 1 reverse. Splitter gearbox with differential and differential lock, off-road range.
Axles:	Heavy duty crane truck axles, all 8 axles sprung. Axles 1 to 4 and 7 and 8 steered. Axles 1, 2, 5 and 6 have planetary reduction gears with differential locks.
Suspension:	All axles are hydropneumatically sprung with automatic levelling. Load equalization between all axle pairs. Suspension can be hydraulically locked.
Tyres:	24 tyres. Axles 1, 2, 5 and 6 with single tyres, axles 3, 4, 7 and 8 with twin tyres. Tyre size: 14.00 R 25.
Steering:	ZF semi-unitary hydraulic power steering with 2 pump circuits. Main pump circuit driven from engine, auxiliary pump circuit from final drive.
Brakes:	Service brake: servo assisted air brakes acting on all wheels, dual circuit system. Hand brake: spring-action, acting on all wheels of axles 2 to 7.
Driver's cab:	Large-area, all-steel cab with resilient mountings, safety glass windows and full range of instruments.
Electrical system:	24 Volts DC, 2 batteries, lighting to German road vehicle regulations.

Crane superstructure.

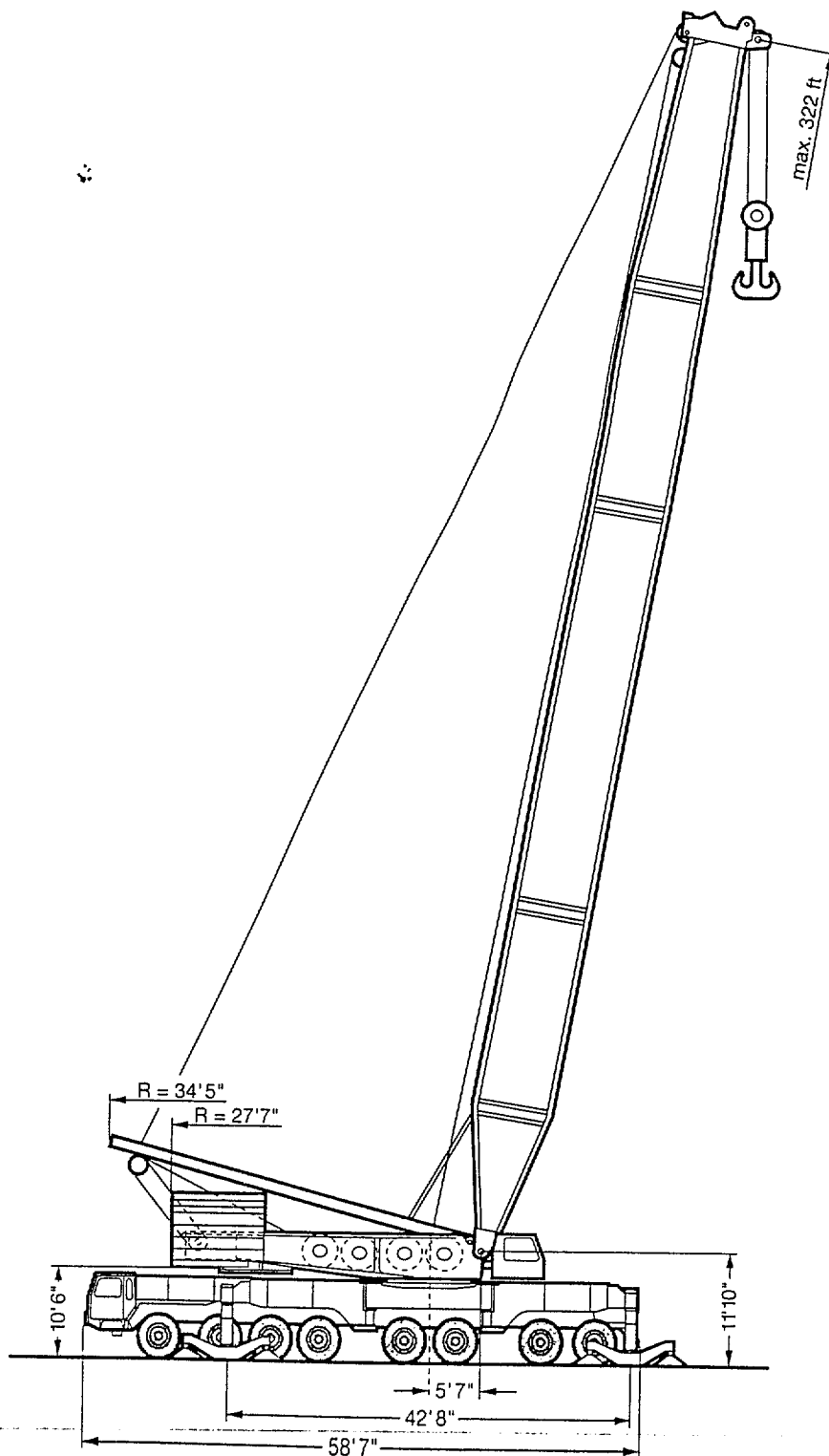
Frame:	Self-manufactured, torsion resistant, welded construction of high-tensile steel. Connected to chassis by a 3-row roller slewing ring, 360° slewing range.
Engine:	10 cylinder Daimler-Benz Diesel, type OM 423 A-turbo, water cooled, output acc. to DIN 70020 – 300 kW (408 HP) at 2100 min ⁻¹ , max. torque 1216 lbs-ft at 2100 min ⁻¹ . Fuel tank capacity: 177 gallons.
Crane drive:	Hydraulically by pump transfer case and 5 axial piston variable displacement pumps with capacity control; closed hydraulic circuits.
Crane control:	Servo control with electronic synchronizing device on hoisting winches. Energy recycling during lowering of load. All motions controlled independently by joystick selectors.
Winches:	4 winches, hydraulically controlled by axial piston variable displacement pumps and planetary gears. Spring-loaded multi-disc brakes with hydraulic release.
Slewing gears:	Hydraulically controlled by axial piston pump and planetary gear, spring-loaded multi-disc brake with hydraulic release. Infinitely variable slewing speed 0 – 1,2 min ⁻¹ .
Counterweight:	441000 lbs, consisting of: 1 base slab of 35300 lbs, 12 slabs of 22000 lbs each and 4 slabs of 13200 lbs each and 4 slabs of 22000 lbs.
Operator's cab:	Sheet steel design with safety glazing, movable sideward and inclinable to the rear; including operating equipment and check instruments.
Safety devices:	Electronic load-moment limiter, hoist limit switch, safety valves to protect hydraulic system against pipe and hose fracture.
Electrical system:	24 V DC – 2 batteries, 143 Ah each.

Boom configurations.

Heavy-weight design: SL – SLN

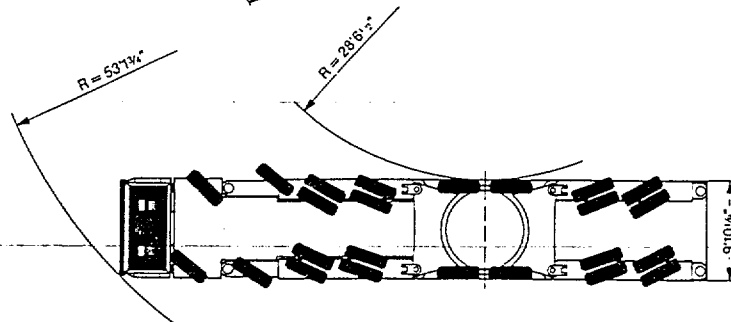
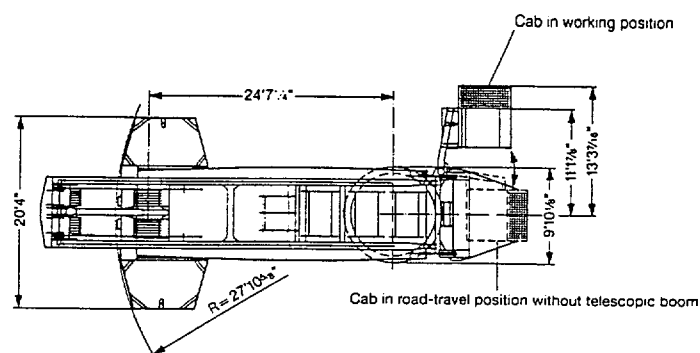
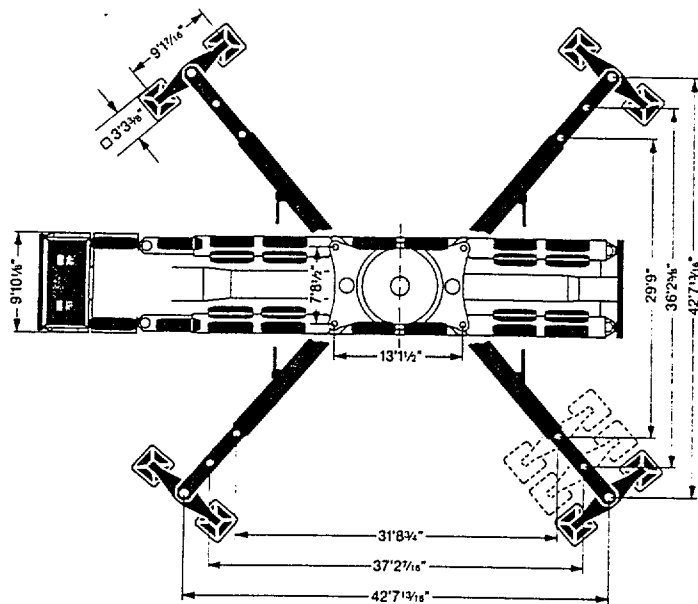
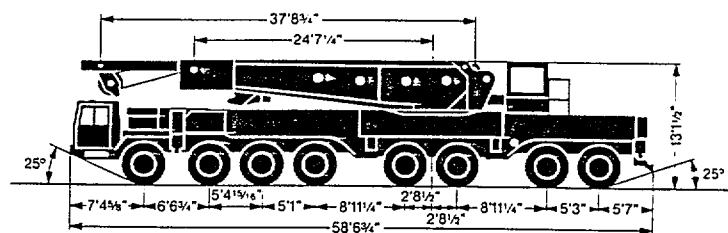


Dimensions.





Dimensions.





Weights.



Axle	1	2	3	4	5	6	7	8	Total weight
lbs	26455	26455	26455	26455	26455	26455	26455	26455	211641



Load (kips)	No. of sheaves	No. of lines	Weight lbs
772	15	31	11023
518	9	19	8818
205	3	7	4409
90	1	3	2646
32	—	1	1322

Working speeds.



	1	2	3	4	5	R	
mph	9.1	12.8	20.3	30.2	42	9	18 %
mph	4.7	7	11.2	16.4	23.2	5	34 %
	14.00 R 25						

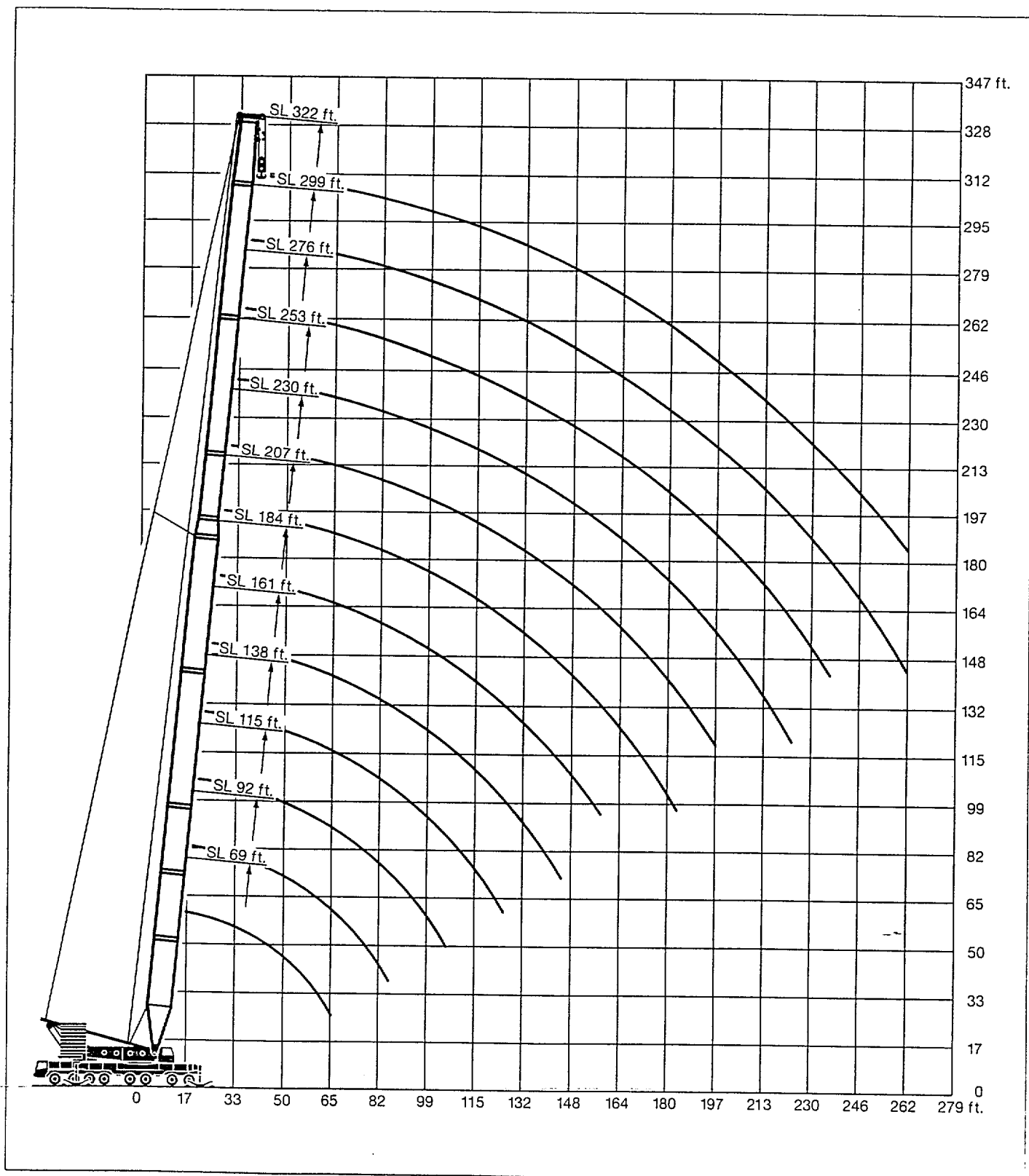


Drive	infinitely variable	Rope diameter / Rope length	Max. single line pull
	0 - 425 ft/min single line	1 1/8" / 1970'	31460 lbs
	0 - 475 ft/min single line	1" / 3500'	31460 lbs
	0 - 475 ft/min single line	1 1/8" / 2950'	31460 lbs
	2 x 165 ft/min single line	1 1/8" / 820'	40451 lbs
	0 - 1,2 min ⁻¹		

¹⁾ Luffing jib gear²⁾ Luffing gear



Lifting heights at SL boom.





Lifting capacities at SL boom.



69 ft - 322 ft

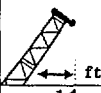
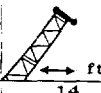


360°



441000 lbs

85%

 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	322 ft	 ft
14	1400												14
15	1316												15
16	1242												16
17	1181												17
18	1129												18
19	1078	942											19
20	1029	915	893										20
21	988	892	878										21
22	938	870	863										22
23	884	848	848										23
24	865	835	830	805									24
26	825	807	793	776									26
28	787	772	757	741	706								28
30	751	736	722	707	682	606	518						30
32	719	704	691	676	664	604	505						32
34	683	669	656	642	637	585	491	425	362				34
36	644	632	619	605	604	554	476	411	352				36
38	612	599	588	574	573	540	463	397	343				38
40	581	569	558	545	544	525	450	385	334	305	279	255	40
45	516	506	496	484	482	474	418	359	312	285	265	240	45
50	464	454	445	434	432	427	388	335	293	269	248	226	50
55	420	411	402	392	390	385	361	312	274	255	234	213	55
60	382	374	366	356	354	349	335	292	256	240	221	202	60
65	346	343	335	326	323	319	311	274	240	229	210	193	65
70		317	309	300	298	294	288	257	226	218	200	183	70
75		294	286	278	275	272	267	240	213	208	191	174	75
80		272	266	257	255	252	247	225	201	199	182	165	80
85		252	248	240	237	234	230	212	190	187	173	158	85
90			233	224	222	219	215	197	179	176	165	149	90
95			218	210	208	205	201	183	169	166	158	142	95
100			204	197	195	192	188	171	160	157	150	136	100
105				186	183	180	176	160	150	148	143	129	105
110				176	173	170	166	151	143	141	138	121	110
115				166	163	160	157	143	137	134	132	115	115
120				156	154	152	148	135	131	128	126	109	120
125					146	144	140	128	123	121	121	104	125
130						139	136	133	123	118	117	100	130
135						131	130	126	117	112	112	96	135
140						123	123	120	112	107	106	91.5	140
150							112	108	101	96.5	94.5	82.5	150
160							98	91.5	87.5	84.5	79.5	74	160
170							89	82.5	79	75.5	70.5	64.5	170
180							78.5	74.5	71.5	67.5	62.5	56.6	180
190								67.5	64	60.5	55.2	49.3	190
200									57.8	54	48.5	42.6	200
210									52	48.2	42.5	36.5	210
220									45.3	42.9	37.1	30.9	220
230										38.1	32.2	25.4	230
240											27.5	20.4	240
250											23	15.6	250
260											18.2	8.9	260
ft/s*	29												ft/s*

Lifting capacities above 849 kips only with special equipment over rear (special boom head and another support base).

TAB 49191

* Permissible wind speed

Lifting capacities are given in kips (1,000 lbs).

**Lifting capacities at SLN boom/jib combination.**

87°

92 ft - 161 ft



69 ft - 299 ft



360°



299800 lbs

85%

 ft	92 ft												115 ft												 ft
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft			
40	315																							40	
45	315																							45	
50	315	304										314	289											50	
55	315	297	280	235								310	282	264	224									55	
60	313	289	268	231	196							302	275	254	220	188								60	
65	301	282	260	227	192							294	268	247	215	185								65	
70	274	272	254	222	188	158						277	262	240	211	181	154							70	
75	230	254	244	218	184	155	133					241	252	234	206	177	151	129						75	
80		233	231	213	180	152	131	107					238	226	202	174	148	127	104					80	
85		215	213	209	177	149	129	105					219	217	198	170	145	125	103					85	
90		199	198	196	173	146	126	103	82.5				202	202	193	167	143	122	101	81.5				90	
95		176	184	182	169	143	124	101	81	69.5			183	188	185	163	140	120	99.5	80	68.5			95	
100			172	170	165	140	121	99.5	79.5	68.5	59.3			175	174	159	137	118	97.5	79	67.5	57.4		100	
105			161	160	161	138	119	97.5	78	67	58.3			164	163	156	134	115	96	77.5	66.5	56.4		105	
110			152	150	152	135	117	96	76.5	66	57.2			154	153	151	131	113	94.5	76.5	65.5	55.4		110	
115			139	142	143	132	115	94.5	75	64.5	56.2			144	144	144	128	111	93	75	64	54.3		115	
120				123	134	135	129	113	93	73.5	63.5	55.1			131	136	136	126	109	91.5	74	63	53.4		120
125					127	128	125	111	91	72	62	54				129	128	123	107	90	72.5	62	52.5		125
130					118	121	119	108	89.5	71	61	53				122	122	120	105	88.5	71.5	61	51.4		130
135					107	115	113	106	88	69.5	59.8	51.9				112	116	116	103	87	70.5	59.9	50.4		135
140					94.5	110	108	104	86.5	68	58.8	50.9				100	110	110	101	85	69	58.8	49.5		140
150					89.5	98	97.5	83	66	56.7	49.1					98.5	101	97	82	67	56.9	47.7		150	
160					89.5	89	80.5	64	54.6	47.4							91.5	92	79.5	65.5	55	46		160	
170					82	81.5	77.5	62.5	52.5	45.9							84	84	76.5	63.5	53.1	44.4		170	
180					68	75.5	62.5	60.5	51.3	44.3							71.5	77.5	74	62	51.6	42.8		180	
190						68	67.5	59.1	50.1	43								71	69.5	60.5	50.2	41.5		190	
200							58.9	62.5	57.7	48.9	42							63.5	58.8	48.9	40.4			200	
210								57.9	56.3	47.6	41								59.5	57.3	47.5	39.4			210
220								49.3	53.1	46.5	40								52.6	55.1	46.3	38.3			220
230									48.8	45.4	39								51.8	45.2	37.3				230
240									43.3	44.4	38									46.4	44.1	36.4			240
250										42.8	37.2										42.9	35.6			250
260										37.1	36.3										38.9	34.9			260
270										31.1	34.8										33.3	34.1			270
280											31.2											31.8			280

TAB 49193.1

	138 ft												161 ft												
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft			
50	298	274										285	260										50		
55	292	268	249									280	255	232									55		
60	286	262	241	209								276	250	225	195								60		
65	280	256	234	204								272	245	218	191								65		
70	271	249	227	200	174							267	240	212	186	161							70		
75	247	243	220	195	171	148						252	235	205	182	158	136						75		
80		236	213	191	167	145	123	102					229	200	178	155	134	113	94.5				80		
85		223	207	187	164	142	121	101					221	195	174	152	131	111	93				85		
90		206	202	183	160	139	119	99	80.5				207	191	170	149	129	109	91.5	74			90		
95		189	192	179	157	137	116	97.5	79.5	68			193	187	167	146	126	107	90	73	63		95		
100		167	179	173	154	134	114	96	78.5	67	55.5		174	182	163	143	124	105	88.5	71.5	62	51.8	100		
105			167	164	150	131	112	94.5	77	66	54.6			171	160	140	121	103	87	70.5	61	50.8	105		
110			157	154	147	128	109	93	76	65	53.6			161	156	137	119	101	85.5	69.5	59.7	49.8	110		
115			148	145	142	125	107	91.5	75	64	52.7			151	149	134	117	99.5	84.5	68.5	58.7	48.8	115		
120			136	137	137	122	105	90	74	63	51.8			140	140	132	115	97.5	83	67.5	57.8	47.9	120		
125				130	129	120	103	88.5	73	62	50.9				132	129	112	96	82	67	56.9	47	125		
130				123	123	117	101	87	72.5	61	49.9				125	125	110	94.5	80.5	66	56	46.2	130		
135				113	117	114	99	85.5	71.5	59.9	49.1				116	120	109	92.5	79	65	55.2	45.3	135		
140				103	111	110	97	84	70.5	59	48.2				105	114	107	91.5	78	64.5	54.3	44.5	140		
150					100	101	93.5	81.5	68.5	57.2	46.5					103	101	88.5	75.5	62.5	52.7	42.9	150		
160						92	89.5	78.5	67	55.5	44.8					91	92.5	85.5	73.5	61	51.2	41.5	160		
170						84.5	84.5	76	65	53.8	43.1					72.5	84.5	83	71	59.7	49.7	40.1	170		
180						74	78	73.5	63.5	52.1	41.4						75.5	77.5	69	58.4	48.4	38.8	180		
190							71.5	69.5	62	50.5	40.1							72	67.5	57	47.2	37.7	190		
200							64.5	64.5	60	49.1	39							65.5	64.5	55.6	45.9	38.8	200		
210								59.7	58.4	47.7	38								59.8	54.3	44.8	35.9	210		
220								54.3	55.5	46.3	36.9								55.5	52.9	43.7	35.1	220		
230								51.9	45	35.8									49.4	51	42.6	34.3	230		
240								47.1	43.9	34.9										47.8	41.6	33.6	240		
250									42.6	34.2											40.6	32.9	250		
260									40	33.5											39.5	32.2	260		
270									34.9	32.8											35.8	31.5	270		
280										31.5												30.9	280		

TAB 49193.2



87°

184 ft - 253 ft



69 ft - 299 ft



360°



299800 ft

85%

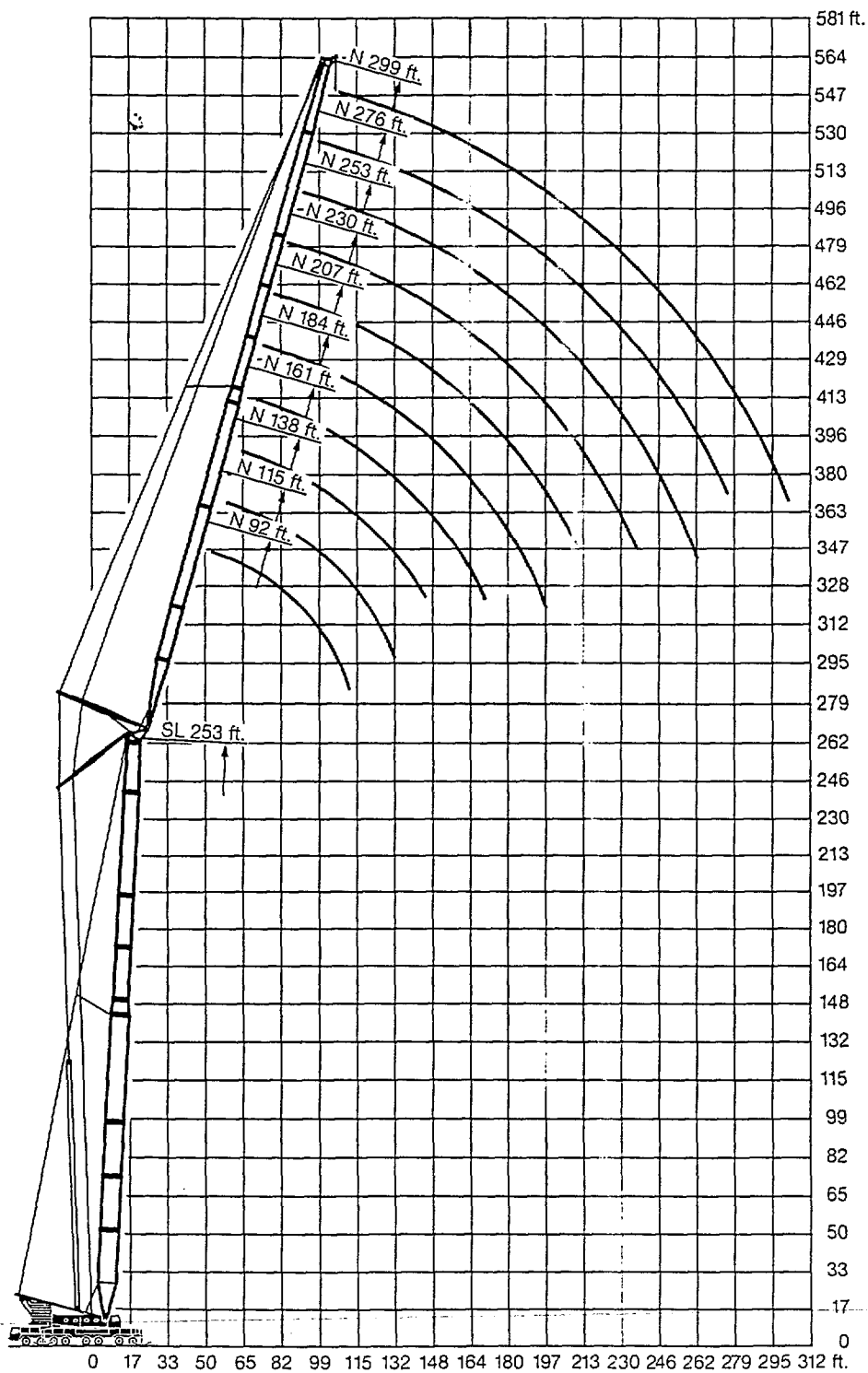
184 ft													207 ft																	
ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	ft							
50	272											50	220										50							
55	269	243	215									55											55							
60	266	239	209	182								60	216	192	169								60							
65	264	235	202	178								65	212	186	165								65							
70	261	231	196	173	148							70	208	182	161	139							70							
75	252	227	191	169	146	125						75	204	177	157	136	117						75							
80	226	223	186	165	143	122	104					80	200	173	153	133	115	97.5					80							
85	168	219	182	161	140	120	102					85	196	166	149	130	112	95.5					85							
90		207	178	158	137	118	99.5	84	68			90	192	165	148	127	110	93.5	79				90							
95		195	174	155	135	116	97.5	82.5	66.5	58		95	188	162	143	125	108	92	77.5	63	54.7		95							
100		179	171	151	132	114	96	81	65	56.6	48.2	100	180	158	140	122	106	90	76	62	53.7		100							
105			169	149	130	112	94.5	79.5	64	55.5	47	105		155	138	120	104	89	75	61	52.8	44.6	105							
110			161	146	127	110	93	78.5	63	54.4	45.9	110		153	135	117	102	87	73.5	59.8	51.8	43.8	110							
115			152	144	125	108	91.5	77	62	53.4	45	115		150	132	115	100	86	72.5	58.9	51	43	115							
120			143	140	123	107	90	76	61.5	52.6	44	120		145	130	113	98.5	84.5	71	58	50.2	42.3	120							
125				133	120	105	89	75	60.5	51.9	43.1	125			128	111	97	83	70	57.1	49.4	41.5	125							
130				126	118	103	87.5	74	59.6	51.1	42.4	130			126	109	95.5	82	69	56.2	48.7	40.9	130							
135				117	115	102	86.5	73	58.9	50.4	41.6	135			120	107	93.5	80.5	68	55.5	48	40.3	135							
140				108	112	100	85.5	72	58.1	49.6	40.9	140			112	105	92	79.5	67	54.7	47.3	39.6	140							
150					104	97	83.5	70	56.7	48.3	39.5	150				101	89	77	65	53.3	46	38.4	150							
160					92	82.5	81.5	68	55.5	47	38.3	160					94.5	86	74.5	63.5	51.9	44.7	37.2	160						
170					75.5	85	79	66.5	54.5	45.7	37.2	170					80	83	72.5	61.5	50.7	43.4	36.1	170						
180						77	77	65	53.4	44.8	36.2	180						79	70.5	60	49.4	42.3	35.2	180						
190							72	63.5	52.4	43.9	35.4	190							68	58.4	48.1	41.2	34.2	190						
200							66	62	51.3	43	34.7	200								64.5	56.8	47	40.2	33.3	200					
210								60	50.2	42.2	34.1	210									55.3	46	39.2	32.5	210					
220									55.6	49.2	41.3	33.5	220								53.7	44.9	38.2	31.7	220					
230									50.3	48.1	40.4	32.9	230								49.9	43.7	37.3	30.8	230					
240										48.5	39.5	32.3	240									42.7	36.4	30	240					
250											38.6	31.7	250										35.3	29.2	250					
260											37.8	31.1	260											34.3	28.3	260				
270											35.6	30.5	270												33.5	27.5	270			
280												29.9	280														28.7	280		
290												29.2	290															25.9	290	
300												27.3	300																25.1	300

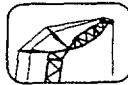
TAB 49193.3

	230 ft ¹⁾										253 ft ²⁾												
	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft			
55	198										182										55		
60	194	175									176	157									60		
65	190	171									172	151									65		
70	186	167	148								168	147	131								70		
75	182	163	145	126	110						165	144	128	114	98						75		
80	178	159	141	123	107	91					162	140	125	111	95.5	83					80		
85	174	156	137	120	105	89.5					159	137	122	108	93.5	81					85		
90	170	152	135	117	103	88	74.5				156	135	120	108	91.5	79.5	66.5				90		
95	166	149	132	115	100	86	73	59.5			154	132	118	104	90	78	65	53.8			95		
100	162	145	129	112	98.5	84.5	72	58.6	50.7		152	130	116	101	88	76.5	64	52.6	44.9		100		
105		142	126	110	96.5	83	70.5	57.7	50	42.2	150	128	114	99.5	86.5	75	63	51.7	44.1	37.3	105		
110		139	123	107	94.5	81.5	69	56.7	49.2	41.6	148	126	112	97.5	85	73.5	61.5	50.7	43.2	36.8	110		
115		136	121	105	92.5	80	68	55.7	48.5	41.1		124	110	95.5	83.5	72.5	60.5	49.9	42.4	36.2	115		
120		133	118	103	91	79	66.5	54.8	47.7	40.5		123	108	94	82	71	59.7	49.2	41.7	35.7	120		
125		130	116	101	89	77.5	65.5	53.8	47	40		121	106	92	80.5	70	58.6	48.5	41	35.1	125		
130		127	113	99	87.5	76	64	52.9	46.3	39.4		119	104	90.5	79	69	57.7	47.7	40.4	34.6	130		
135			111	97	85.5	75	63	52.1	45.6	38.9			102	89	78	68	56.9	47	39.8	34	135		
140			108	95	84	73.5	62	51.4	45	38.3			101	87.5	76.5	67	56	46.2	39.1	33.5	140		
150				91.5	81	71	60.5	49.9	43.7	37.2				84.5	74	65	54.5	45	38	32.4	150		
160					87	78	68.5	58.5	48.5	42.5	36.2			81.5	71.5	63	53	43.9	37	31.5	160		
170					82	75	66	56.8	47	41.2	35.2			78.5	69.5	61	51.5	42.8	36	30.5	170		
180					71	63.5	54.9	45.6	40	34.1					67	59.5	50	41.6	34.9	29.6	180		
190						61.5	53.3	44.2	38.7	33.1					65	57.8	48.5	40.5	33.9	28.6	190		
200						59	51.6	42.8	37.5	32.1						56	47.1	39.5	33	27.6	200		
210							50	41.7	36.4	31								45.9	38.5	32.1	210		
220							48.3	40.6	35.4	30								44.7	37.6	31.3	220		
230							46.6	39.5	34.4	28.9								43.5	36.6	30.5	230		
240								38.4	33.3	27.9									35.6	29.6	240		
250									32.3	26.8									34.7	28.8	250		
260									31.2	25.8									33.7	28	260		
270									30.2	24.7										27.2	21.9	270	
280										23.6											21.1	280	
290										22.6												20.3	290
300										21.5												19.6	300



Lifting heights at SLN boom/jib combination.



**Lifting capacities at SLN boom/jib combination.**67°
92 ft - 161 ft

69 ft - 299 ft

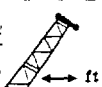


360°

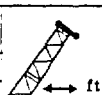


441000 lbs

85%

	92 ft												115 ft																		
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft									
95	197											181											95								
100	187											171											100								
105	177	175										163											105								
110	168	167										155	154										110								
115		159										148	147										115								
120		152	151																				120								
125		145	144	142									140	139									125								
130		139	138	136									135	133									130								
135			133	131									129	128									135								
140			127	126									124	123									140								
150			118	117	115									114	112								150								
160				108	107	104								106	104	103							160								
170				101	100	97.5								99	97.5	96							170								
180				85	92	89.5	86								91.5	90	89						180								
190					85	82	80.5	71.5								84.5	83.5	82.5	69.5				190								
200						76	74.5	69.5	58.2							80	79	77.5	68	54.9			200								
210							70.5	69	66	57.4	48.1						74.5	73	66.5	54	45		210								
220								65.5	64	61.5	56.7	47.2						70	69	65.5	53.2	44.3	220								
230									59.6	57.1	54.9	46.4	38.3						65.5	64.5	62	52.5	43.6	35.8	230						
240										55.6	53.3	52.2	45.5	37.5						60	57.8	51.7	43	35.2	240						
250											49.8	48.7	44.7	36.7							56	53.9	51	42.3	34.6	250					
260												46.6	45.6	43.9	36						50.9	50.4	49.6	41.8	34.1	260					
270													40.9	42.7	41.9	35.2							47.1	46.8	40.9	33.5	270				
280														40	39.5	34.5									43.8	40.1	33	280			
290																										40.9	39	32.4	290		
300																											38.3	36.5	31.9	300	
310																													34.2	31.3	310
320																													32	30.2	320
330																														28.3	330
340																														26.5	340

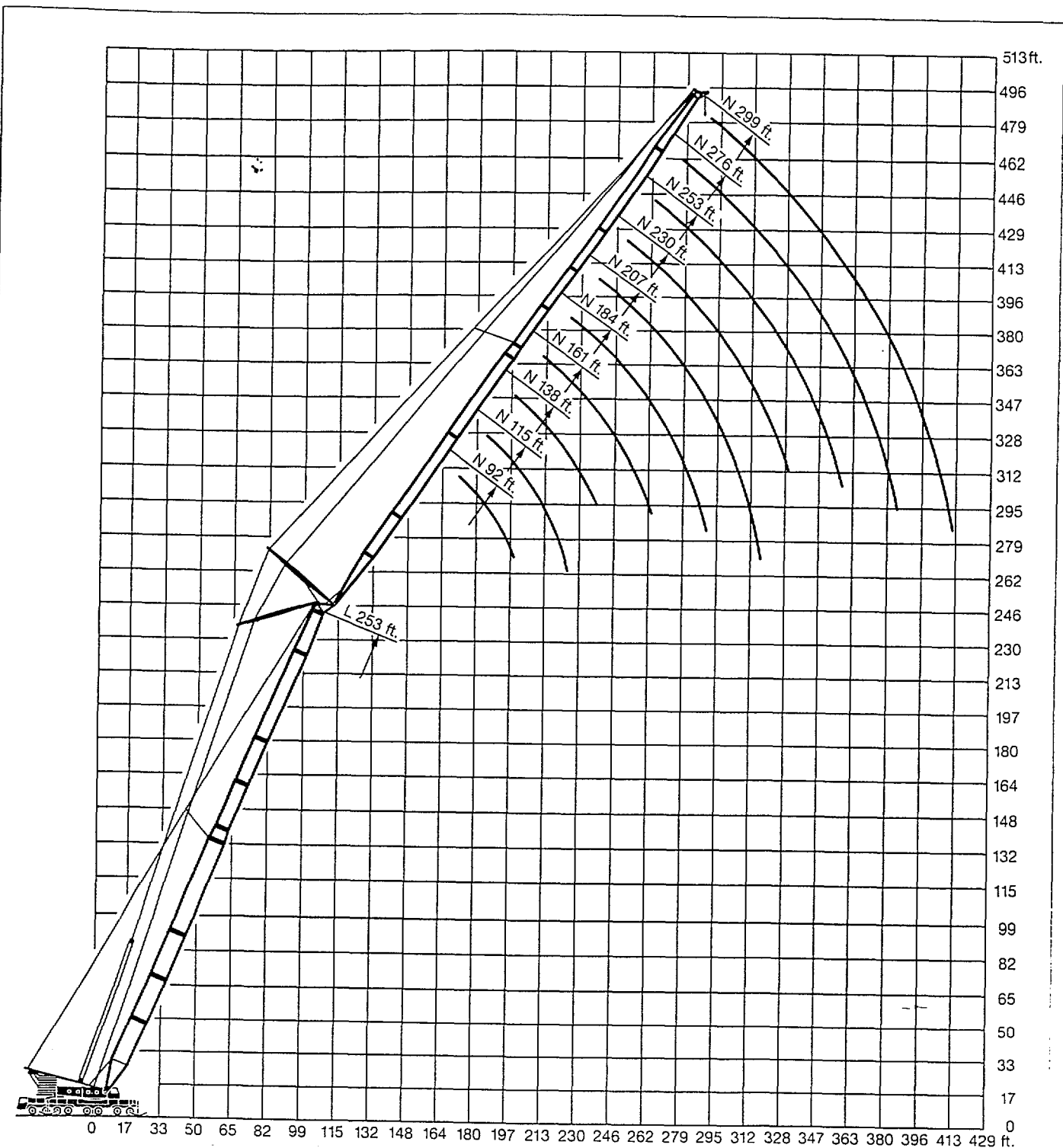
TAB 49105.1

 ft	138 ft												161 ft												 ft							
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft										
105	165																							105								
110	157																							110								
115	150																							115								
120	143	141										138												120								
125	137	135										132												125								
130	131	129										126												130								
135		124																						135								
140		120	118										115											140								
150		111	109	108									107	105										150								
160			101	100	99									98	96									160								
170				94.5	93.5	92.5								91.5	89									170								
180					88	86.5	85							86	83.5	81.5								180								
190					82.5	81	79.5	77							78.5	76.5	74.5							190								
200						76.5	74.5	72	66							74	71.5	70	68					200								
210							72	70.5	67.5	65	50.7						67.5	66	64	59.3				210								
220								68	66.5	63.5	61.5	50						64	62	60	57.1			220								
230									63	60	58.4	49.3	40.9						58.6	56.7	54.1	46.2			230							
240										56.9	55.1	48.5	40.4	32.9					55.5	53.5	51	45.5	37.7		240							
250											53.9	52.1	47.8	39.9	32.6					50.6	48	44.7	37.1	30	250							
260												51.3	49.4	46.5	39.5	32.3					48	45.4	43.4	36.5	29.5	260						
270																					46.7	43	41.3	36	29.1	270						
280																						40.8	39.1	35.4	28.7	280						
290																							38.8	37	34.6	28.4	290					
300																								37.1	35	32.7	28.1	300				
310																											33.3	30.9	27.7	310		
320																													29.2	26.7	320	
330																														27.7	25.3	330
340																														26.3	23.8	340
350																															22.4	350
360																															21.2	360

TAB 49105.2



Lifting heights at SLN boom/jib combination.



SL boom: 67°



67°

184 ft - 253 ft



69 ft - 299 ft

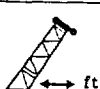


360°



441000 ft

85%

 ft	184 ft											207 ft											 ft		
	69 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft				
125	128																					125			
130	123																					130			
135	118																					135			
140	113																					140			
150		103																				150			
160		95.5	93.5									90										160			
170		89.5	87									84										170			
180			81.5	79.5								79	76.5	73.5								180			
190			77	74.5	72.5								72	69	67							190			
200				70	68	65.5								64.5	62.5	61						200			
210					64	61.5	59.4							60.5	58.6	57.1	54					210			
220					60	57.8	55.8							57.5	55.3	53.7	50.7					220			
230					57	54.5	52.5	49.9							52.2	50.5	47.7	43.5				230			
240						51.5	49.5	46.9	42.5						49.4	47.7	44.8	41.7	35.9			240			
250						48.8	46.7	44.1	41.6	34.4						45	42.2	39.4	34.6	28.9		250			
260						46.5	44.2	41.6	39.7	33.8						42.7	39.8	37	33.4	28		260			
270							42	39.3	37.6	33.2	26.4							37.6	34.8	32.2	27.2	21.9	270		
280							40	37.2	35.4	32.3	26							35.7	32.8	30.8	26.3	21.2	280		
290								35.2	33.4	31	25.6								31	29.1	25.4	20.5	290		
300								33.5	31.6	29.1	25.2								29.3	27.3	24.5	20	300		
310									29.9	27.3	24.5									27.8	25.7	23	19.3	310	
320									28.3	25.7	23.2										24.2	21.4	18.7	320	
330										24.2	21.6											22.8	19.9	18	330
340										22.8	20.2											21.7	18.5	16.8	340
350										21.7	18.8												17.3	15.8	350
360											17.6													14.9	360
370											16.6													14.1	370
380											15.9													13.5	380

TAB 49105.3

ft	230 ft ¹										253 ft ²										ft
	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	92 ft	115 ft	138 ft	161 ft	184 ft	207 ft	230 ft	253 ft	276 ft	299 ft	
160	82																				160
170	76																				170
180	71.5	69									65.5										180
190		65	62.5								61.5	59.4									190
200		61	58.5	55.5								55.6	52.4								200
210			54.9	51.9	49.8							52.3	49	47							210
220			51.8	48.8	47							49.5	46.1	44							220
230			49	45.9	44.3	40.9							43.5	41.3	38.7						230
240				43.3	41.6	38.6	33.7							38.8	36.2	34.2					240
250					39.2	36.2	32	27.7						36.6	33.9	31.8	28.7				250
260					36.7	34	30.3	26.1						34.6	31.9	29.7	26.5				260
270					34.1	31.9	28.6	24.5	21.2					30	27.8	24.6	21.1				270
280						29.8	26.8	22.9	20	16.6					28.3	26	22.7	19.1	17		280
290						27.6	25.1	21.3	18.9	15.7						24.3	20.9	17.2	15.6	11.8	290
300						25.3	23.4	19.8	17.7	14.8						22.8	19.3	15.8	14.5	11.2	300
310							21.7	18.2	16.5	14						21.6	17.8	14.8	13.6	10.7	310
320							19.9	16.8	15.3	13.1							16.6	13.9	12.7	10.1	320
330								15.7	14.2	12.2								13.1	11.9	9.5	330
340								14.5	13.1	11.3								12.5	11.1	8.9	340
350									11.9	10.5								11.9	10.5	8.3	350
360								10.8	9.6										9.9	7.7	360
370									8.7										9.3	7.1	370
380									7.8										8.9	6.5	380
390									6.9											6	390
400																				5.4	400

TAB 49105.4